BRUHAT BANGALORE MAHANAGARA PALIKE

Job Code :

YALAHANKA ZONE , BYATARAYANAPURA DIVISION

Contractor- M/S Benaka Developers and Projects Pvt Ltd

Name of Work: 1.Improvements to roads Drains anf other Devlopmental Works In Maruthinagara Ward No 01 Under SWM Head In Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.

BOQ NO	Description of item	Unit	BOQ Qty	Qnty Executed In 1st Bill	% Completed	Bar Chart 20%	40%	60%	80%	100%
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301 (I No-19.14,P No-143)	cum	2852.71	320.59	11.24%					
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 Page No.3.6	cum	5877.75	1157.90	19.70%					
3	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301 KBS Page No.144 It No.19.2	cum	496.25	459.04	92.50%					
4	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 It No.4.7	cum	926.35	204.33	22.06%					
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.270, I.No.37.59.1	cum	2082.94	432.08	20.74%					

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6	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.Specification for TMT bars Fe 500(Page No-229. INo.28.8.2 2018-19)	Tonne	128.45	24.85	19.34%	
7	Removing and Refixing of stone slabs of drains and poiting in CM(1:3) Page No.27 It No.5.33	sqm	2002.50	1590.48	79.42%	
8	Providing and fixing precast cover slab made out of CC 1:2:4 with 10cm finishing cutting including form work,cost of all materials,labour hire charges of chinery loading and unloading lead and lift transportation etc, complete (Data rate)	sqm	5374.80	1226.01	22.81%	
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	sqm	240.00	0.00	0.00%	
10	Removing and resetting of kerb stones Page No.270 It No.37.57	No's	4420.88	126.70	2.87%	
11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as per specifications	No's	14581.32	0.00	0.00%	
12	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8)	sqm	3847.95	0.00	0.00%	
13	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and IS 456 Table-5 22.1.1-do-with OPC at 150kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using concrete batch mix plant at 75 Cum/hr capacity with slip farm layer with electronic sensor.	cum	1054.43	240.44	22.80%	

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14	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46um,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.	cum	1028.04	240.44	23.39%					
15	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.6,P No-153)	cum	1008.68	0.00	0.00%					
16	KSRRB M400-17. Providing, laying,spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired surface and compacting with vibratory roller to achive the desired density complete as per specifications.MORTH Specification No.406 (I No-20.18,P No-155)	cum	749.09	0.00	0.00%					
17	KSRRB M500-6.Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision .Item No.- 21.6 ,Page No.158	sqm	4993.51	0.00	0.00%					
18	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 page No.158 It No.21.2	sqm	17870.00	0.00	0.00%					
19	KSRRB 500-17 Provding and laying dense geaded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision 21.17.6 -do- using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (59 mm to 75mm) with 4.5 % VG-30 Bitumen ,(Item No-21.17.2 , Page No-160)	cum	397.06	0.00	0.00%					

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20	KSRRB M500-6.Providing and applying Tack coat using 80/100 bitumen(VG 10) on prepared black topped surface at 2.5 kg per 10 sqm,heating bituman in boiler fitted with spray set (excluding cleaning of road surface)including cost of materials,labour, HOM complete as per specifications. Clause 503 of MORTH V revision .Item No.-21.7 ,Page No.158	sqm	22256.00	0.00	0.00%						
21	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laing with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. ,using 40-60 TPH capacity HMP with mechanical paver II(30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bituminous (60/70grade) and 0.43% of plastomeric thermoplastics (Waste plastic)Pg No-171.It No.21.78.12	cum	890.24	0.00	0.00%						
22	Providing and fixing of Retro-Reflectorised cautionary, mandatory and informatory signs as per IRC:67 made of high intensity grade sheeting vide Clause 8001.3, fixed over aluminium sheeting,1.5mm thick supported on a mild steel angle iron post 75x75x6mm firmly fixed to the ground by means of properly disigned foundation with M15 Grade cement concrete 45cm x 45cm x 60cm, 60cm below ground level as per approved drawing Page No.180. It No.24.2.	No's	2030.50	0.00	0.00%						
23	KSRRB M800-5.2. Over head Signs:Supply and installation of Retro-Reflecton overhead gantry signs boards made out of cube corner IRC:67:2012 specification and fixed over 4mm thick aluminium composite panel sheet having minimum 0.3mm thick aluminum skin on both sides excluding the cost of support frame , vertical support and horizontal support and foundation as directed by the engineer incharge of the work Page No.181It No.24.6.	sqm	11.10	0.00	0.00%						
24	KSRRB M800-4. Direction and Place Identification Signs / Project information board with size more than 0.9 sqm Size Board:-MProviding and erecting direction and place identification of retro-reflectorised signs as per IRC:67 made of high intensity grade sheeting vide Clause 8001.3, fixed over aluminium sheeting,1.5mm thick supported on a mild steel angle iron post 75x75x6mm firmly fixed to the ground by means of properly disigned foundation with M15 Grade cement concrete 45cm x 45cm x 60cm, 60cm below ground level as per approved drawing Page No.180. It No.24.4	sqm	12.00	0.00	0.00%						
25	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:-Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No.182.It No.24.15	sqm	1401.93	0.00	0.00%						
26	For rainwater harvesting work including 40mm jelly, 20mm jelly coarse sand,fine sand ,12.50mm chips as per data rates	No's	14.00	0.00	0.00%						

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7	KSRRB M300-Construction of Subgrade and Earthen Shoulders. KSRRB M300-55. Construction of sub-grade and earthen shoulders with approved material Gravel/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory rollercompaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305 page No.147 It No.19.62 SR 2018-19	cum	711.00	0.00	0.00%	
28	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical Investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.47, I. 9.4) PRED SR 2012-13	Each	5.00	5.00	100.00%	
29	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,)Page no. 46 / I. 9.1 PRED SR 2012-13 (0-50m)	Mtr	250.00	250.00	100.00%	
	50.00 to 100.00 Mtr	Mtr	250.00	250.00	100.00%	
	100.00 to 150.00 Mtr	Mtr	250.00	250.00	100.00%	
	150.00 to 200.00 Mtr	Mtr	250.00	250.00	100.00%	
	200.00 to 250.00 Mtr	Mtr	250.00	250.00	100.00%	
	250.00 to 300.00 Mtr	Mtr	250.00	250.00	100.00%	
	300.00 to 350.00 Mtr	Mtr	250.00	233.00	93.20%	
30	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) SE PRED III NO 84, PRED 12-13 SR)	Rmt	250.00	241.00	96.40%	
31	Providing and fixing 250mm dia PVC Pipe and as per specifications and directions(BWSSB SR 16-17 PNO 57 SL NO 11)	Rmt	30.00	30.00	100.00%	
32	175mm dia M.S Casing Cap (P.No.iii. It No-85,PRED 12-13 SR)	Each	5.00	5.00	100.00%	
33	Supply of 175mm dia M.S Collors Each (P.No.iii. It No-86,PRED 12-13 SR)	Each	35.00	35.00	100.00%	

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	and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / ita/ Calamal/ make suitable for vertical installation in 150mm bore well comprising of single stage or multistage CF pump close pled by measns of stainless steel coupling to suitable HP able speed totally enclosed and filled with pure drinking water /et type) squirrel cage submersible induction motor suitable for pertation of 3PH , 50 Hz, 380/440 volts AC supply fitted with equired aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . 15HP/11KW 25 Stage (PAGE NO XLII It No.41, PWD SR 2018-19)	No's	5.00	4.00	80.00%				
35	Providing, laying and jointing GI pipes confirming to IS specification of approved makes with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead and threads for the joints wherever necessary as per direction including all lead and lift etc., coplete'A' grade(excluding cost of fittings) 50mm dia GI pipe(PWD SR 2018-19, Page No.92 It No.13.6)	Rmt	1500.00	1205.00	80.33%				
36	Supply of 50mm MS collars	Each	250.00	202.00	80.80%				
37	Supplying and drawing 3 core PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts 4 sqmm of 56 strands 0.3mm dia.(P No.536 It No.30 (c) GROUP-A. BWSSB 13-14 SR)	Rmt	2700.00	2570.00	95.19%				
38	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset above 6.5HP to 15 HP Star Delta Starter (MR)	No's	5.00	0.00	0.00%				
39	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete box of 21600 sq cm (Pg No.530, It No.39 b, BWSSB SR 13-14)	sqm	110000.00	0.00	0.00%				
40	Providing and fixing of clamps set and borewell cap to the pump(MR)	No's	5.00	0.00	0.00%				
41	Supply and delivery at site brand New best make non return valve of size 50mm as per IS:778/84 with latest amendments with ISI mark (50mm Gate wheel valve. PWD SR 2018-19, Pg No. XXV, Sl No.647)	No's	5.00	0.00	0.00%				
42	Supply and delivery at site brand New best make non return valve of size 50mm as per IS:778/84 with latest amendments with ISI mark 50mm Gate valve for distributer pipeline 50mm dia.. PWD SR 2018-19, Pg No. XXVI, Sl No.661)	No's	10.00	0.00	0.00%				
43	Providing and fixing of 50mm GI shortbend to motor (PWD SR-2018-19,P.No XXXIX, GI pipe fittins-ISI Standards Table)	No's	9.00	0.00	0.00%				

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ng and fixing of 50mm GI union to the motor (PWD SR-2018- o XXXIX, GI pipe fittins-ISI Standards Table)	No's	9.00	0.00	0.00%						
ving and fixing of 50mm GI Elbow PWD SR 18-19 XXXIX	No's	5.00	0.00	0.00%						
r charges for erection of new/repaired submersible pumpset with GI pipes (32/50mm) cable (new submersible pumpset if red will be supplied by the department free of cost and sedpump set should be handled over to department) including portation(each length =6.00m)(P.No.564, It No.3 BWSSB SR 4)	L	250.00	0.00	0.00%						
tion of combined panel board meer board with all necessary erials and labour including providing CC 1:3:6 foundation bed complete basement outdoor type (MR)	No's	5.00	0.00	0.00%						
pplying and fixing miniature circuit breakers/isolators on existing B distribution boards using necessary fixing materials and wiring nplete as required, 40 to 63 Amps DP (P No. 526 / I No.13D (a) WSSB SR 2013-14)	No's	5.00	0.00	0.00%						
pplying and laying of L.T.U.G cable hsving aluminium conductor VC insulated shethed galvanized steel wire/steel tape armoured able with PVC outer sheathing 1. KV class 4 core 16 sqmm cable (onfirming to IS 1554) (P No.553, It No.10 (d), BWSSB SR 13-14)	Mtr	175.00	0.00	0.00%						
Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete sutting road surfaces (P No. 554 / I. No.12 (b) BWSSB SR 13-14)	Mtr	175.00	0.00	0.00%						
Supplying and fixing of class-A GI pipe on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm (P. No.555 / I No -15(b) BWSSB SR 13-14)	Mtr	15.00	0.00	0.00%						
Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (P No.552, I No. 7 BWSSB SR 13-14)	No's	5.00	0.00	0.00%						
Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class 16sqmm UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., (P No.555, I No.16(b) BWSSB SR 13-14)	No's	5.00	0.00	0.00%						
Supplying shunt capacitors confirming to IS 2834, 3 phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's(MR)	No's	5.00	0.00	0.00%						
Providing and fixing gun metal wheel valve confirming to IS specifications of approved make as per direction including all lead and lift etc., Complete 50mm dia (P No.94, I No. 13.79.6 BWSSB SR 18-19)	No's	5.00	0.00	0.00%						
Supplying and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc. size 20"x20"x2.5",(P No.521, I No. 2 BWSSB SR 13-14)	No's	5.00	0.00	0.00%						
Erection of pumping machineries PRE-SR-12-13 P.No.51/10.3.20	No's	5.00	0.00	0.00%						
Bescom Deposit charges	L/S	5.00	0.00	0.00%						
Borewell registration charges per Rs.1000 each for BWSSB	No's	5.00	0.00	0.00%						

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60	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications No.KBS 2.1(b)/ 2.3.5 (page No.5, It No.2.4 PW,P& IWTD SR 2018-19)	cum	459.00	0.00	0.00%					
61	KSRRB 13-9: Providing and fixing to wall ceiling and floor high density polyethylene pipes 6.00kgf/sqm.cm working pressure of outside diameter raising mains and exposed distribution pipes with special flange,compression types fitting, wall clips,making good the wall ,ceiling and floor, including cost of materials,labour charges HOM and testing complete as per Specifications.Specification No.KBS 13.2.15.2/13.9, KSRB 13-9.4: do-63mm dia(P No.94, It No.13.73.2)	Rmt	840.00	0.00	0.00%					
62	KSRRB M 400- Wet Mix Macadam KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406	cum	75.60	0.00	0.00%					
63	Filling available excavated earth around pipelines cable in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications Specification .(Page No.6, Item No. 2.10)PW, P& IWTD SR 2018-19)	cum	459.00	0.00	0.00%					

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